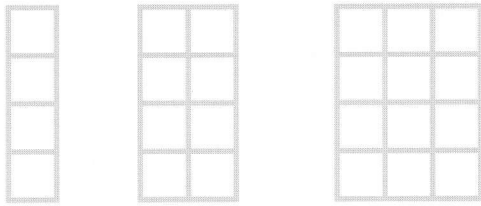


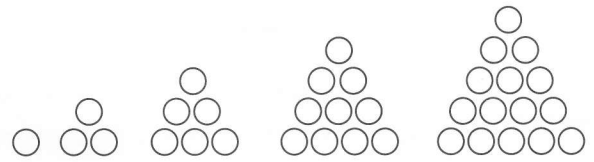
Follow the rule. Extend the pattern.

1



The pattern is \_\_\_\_\_

2



The pattern is \_\_\_\_\_

3 Rule: Multiply by 2.

2, 4, 8, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

4 1, 3, 9, 27, 81

The pattern is \_\_\_\_\_

5 Rule: Add 12.

24, 36, 48, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

6 99, 88, 77, 66

The pattern is \_\_\_\_\_

7 3, 6, 12, 24

The pattern is \_\_\_\_\_

8 2, 5, 11, 23

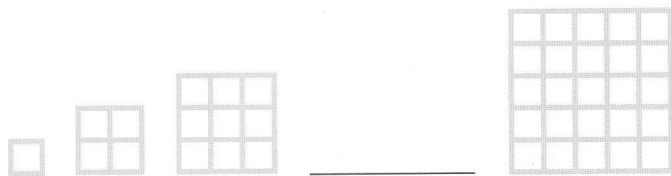
The pattern is \_\_\_\_\_



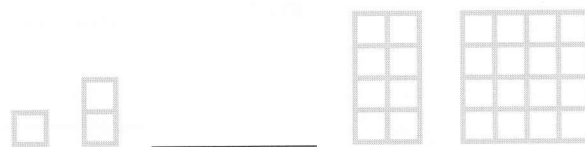
Tell how the rule describes the pattern.

Describe the pattern. Find the pattern. Complete the pattern for each problem.

1



2



3

7, 14, 28, 56, \_\_\_\_\_, \_\_\_\_\_

4

625, 125, 25, \_\_\_\_\_, \_\_\_\_\_

5

78, 65, 52, 39, \_\_\_\_\_, \_\_\_\_\_

6

100, 52, 28, 16, \_\_\_\_\_, \_\_\_\_\_

7

Input	Output
2	10
3	15
4	20

8

Input	Output
2	8
3	12
4	16

9

Input	Output
5	15
10	30
15	
	60

10

Input	Output
2	7
4	13
6	19
8	



Tell two ways to find the pattern in the tenth problem.

Extend the pattern. Write the rule for each pattern.

1

Input	Output
2	12
5	15
7	17
13	23

rule: \_\_\_\_\_

\_\_\_\_\_

2

Input	Output
3	12
6	24
9	36
12	48

rule: \_\_\_\_\_

\_\_\_\_\_

3

Input	Output
4	12
6	18
8	24
10	

rule: \_\_\_\_\_

\_\_\_\_\_

4

Input	Output
1	12
3	14
5	16
7	18

rule: \_\_\_\_\_

\_\_\_\_\_

5

Input	Output
45	37
40	32
35	27

rule: \_\_\_\_\_

\_\_\_\_\_

6

Input	Output
48	4
36	3
24	2

rule: \_\_\_\_\_

\_\_\_\_\_

7

Input	Output
37	74
40	80
43	86
	92

rule: \_\_\_\_\_

\_\_\_\_\_

8

Input	Output
68	34
58	29
48	24
	19

rule: \_\_\_\_\_

\_\_\_\_\_

9

Input	Output
90	30
81	27
72	24
	21

rule: \_\_\_\_\_

\_\_\_\_\_

10

Input	Output
13	31
14	33
15	35
16	

rule: \_\_\_\_\_

\_\_\_\_\_



Create your own pattern and define the rule.

**Solve.**

- ① Use the following rule to make a pattern.

Rule: Add 9

\_\_\_\_\_

- ② Use the following rule to make a pattern.

Rule: Multiply by 4

\_\_\_\_\_

- ③ Complete the pattern, then define the rule for the pattern.

1, 6, 11, 16, 21, \_\_\_\_\_, \_\_\_\_\_

Rule: \_\_\_\_\_

- ④ Complete the pattern, then define the rule for the pattern.

64, 53, 42, 31, \_\_\_\_\_, \_\_\_\_\_

Rule: \_\_\_\_\_

**Circle the letter for the correct answer.**

- ⑤ Which of the following numbers complete the pattern below?

125, 100, 75, 50, \_\_\_\_\_, \_\_\_\_\_

- a) 10, 5  
b) 25, 5  
c) 10, 2  
d) 25, 0

- ⑥ Which of the following best describes the pattern below?

Input	Output
10	50
8	40
6	30
2	10

- a) add 10  
b) subtract 10  
c) multiply by 5  
d) divide by 5